Name:

## at1113exam: Expand, factor, and solve quadratics (v327)

1. Expand the following expression into standard form.

$$(9x + 7)(9x - 7)$$

2. Expand the following expression into standard form.

$$(7x + 6)^2$$

3. Solve the equation.

$$(9x + 8)(5x + 7) \;=\; 0$$

4. Expand the following expression into standard form.

$$(2x + 5)(7x - 9)$$

5. Solve the equation.

$$7x^2 - 4x - 1 \;=\; 2x^2 - 5x + 3$$

6. Solve the equation with factoring by grouping.

$$12x^2 + 8x + 15x + 10 \;=\; 0$$

7. Factor the expression.

$$81x^2 - 64$$

8. Factor the expression.

$$x^2 + x - 56$$